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P07 41795 (18810-80334)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Date: September 24, 2001 *attachment*

In re application of: Readhead et al.

Serial No. 09/292,723

Filed: April 15, 1999

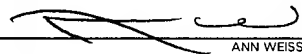
For: TRANSFECTION, STORAGE AND TRANSFER OF MALE GERM
CELLS FOR GENERATION OF TRANSGENIC STEM CELLS

Examiner: Martin, J.

Unit: 1632

RESPONSE TO OFFICE ACTION

Assistant Commissioner for
Patents
Washington, D. C. 20231

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO THE ASSISTANT COMMISSIONER FOR PATENTS WASHINGTON, D. C. 20231, ON <u>September 24, 2001</u>	
BY <u></u>	DATE <u>September 24, 2001</u>
(DATE OF SIGNATURE)	

Dear Sir/Madam:

This is in Response to the Office Action mailed April 24, 2001, for the above-captioned patent application. This response is submitted on or before September 24, 2001, with a request for a two (2)-month extension of time, under 37 C.F.R. § 1.136(a), and the requisite fee under 37 C.F.R. § 1.17(a). In connection with the above-captioned application, the Examiner is respectfully requested to consider the following amendment and remarks.



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AMENDMENT

A Version With Markings To Show Changes Made is included after Applicant's Remarks, beginning at page 25.

In the Claims:

Please cancel Claims 1-62, 75-82, 94-101, and 107-117, without prejudice and add the following new Claims 133-195.

--133.(New) A method of obtaining a selectable transgenic stem cell of a non-human mammal, comprising:

injecting into a gonad of a male non-human mammal a transfection mixture comprising at least one transfecting agent and at least one polynucleotide comprising a transcriptional unit of a human cyclin A1 promoter sequence operatively linked to a DNA encoding a fluorescent or light-emitting protein, wherein said gonad contains a male germ cell of the non-human mammal, and wherein said germ cell is selected from the group consisting of spermatogonial stem cells, type B spermatogonia, primary spermatocytes, preleptotene spermatocytes, leptotene spermatocytes, zygotene spermatocytes, pachytene spermatocytes, secondary spermatocytes, spermatids, and spermatozoa;

causing said polynucleotide to be taken up by, and released into, said germ cell; and

incorporating said polynucleotide into the genome of said germ cell, whereby a selectable transgenic stem cell is obtained expressing said fluorescent or light-emitting protein, by which said stem cell can be isolated or selected from a non-stem cell.